1. Write a Java method that Reverse an array using another array.

**public class** HW1 {  
 **public static void** main(String[] args) {  
 Integer[] intArray = {10,15,20,25,30,35,40,45,50};  
  
  
 System.***out***.println(**"the order Array:"**);  
 **for**(**int** i=0;i<intArray.**length**;i++)  
 System.***out***.print(intArray[i] + **" "**);  
  
 System.***out***.println();  
  
  
 System.***out***.println(**"reverse order Array:"**);  
 **for**(**int** i=intArray.**length**-1;i>=0;i--)  
 System.***out***.print(intArray[i] + **" "**);  
 }  
}

output

the order Array:

10 15 20 25 30 35 40 45 50

reverse order Array:

50 45 40 35 30 25 20 15 10

1. Write a Java method that Clone an array to a backup array.

**public class** HW2 {  
  
 **public static void** main(String[] args) {  
 **int** a[] = {1, 8, 3,4};  
 **int** b[] = **new int**[a.**length**];  
 b = a;  
 b[0]++;  
  
 System.***out***.println(**"Array of a[] "**);  
 System.***out***.print(**"["**);  
 {  
 **for** (**int** i = 0; i < a.**length**; i++)  
 System.***out***.print(a[i] + **","**);  
 }  
 System.***out***.println(**"]"**);  
  
 System.***out***.println(**"\n\nArray of b[] "**);  
 System.***out***.print(**"["**);  
 {  
 **for** (**int** i = 0; i < b.**length**; i++)  
 System.***out***.print(b[i] + **","**);  
 }

output

Array of a[]

[2,8,3,4]

Array of b[]

[2,8,3,4]

1. Write a Java method that remove elements from an array.

**public class** HW33 {  
 **int x**[]={10,70,90,50};  
 **public void** removeing (**int** a)  
 {  
 **int** [] r=**new int** [**x**.**length**-1];  
 **for**(**int** i=0,j=0;i<**x**.**length**;i++)  
 {  
 **if**(i!=a)  
 {  
 r[j++]=**x**[i];  
 }  
  
 }  
 System.***out***.println(**"element removeing is done."**);  
 **for**(**int** i=0;i<**x**.**length**-1;i++)  
  
 {  
 System.***out***.println(r[i]);  
 }  
 }  
  
 **public static void** main(String[] args) {  
 HW33 o=**new** HW33();  
 o.removeing(2);  
  
 }  
 }

output

element removeing is done.

10

70

50

1. Write a Java method that repeatedly selects and removes a random entry from an array until the array holds no more entries.

*/\*\*  
 \* Created by AMAT AL-SORORY on 2/12/2021.  
 \*/***import** java.util.Random;  
**public class** HW3 {  
 **public static void** main(String[] args) {  
 **int** []array={1,2,3,4,5,6,7,8,9,0};  
 System.***out***.println(**"array element :"**);  
 **for**(**int** i=0;i<array.**length**;i++)  
  
 {  
 System.***out***.println(array[i]+**" "**);  
 }  
 System.***out***.println();  
 *removeElemnts*(array);  
  
 }  
 **static void** removeElemnts(**int**[]array)  
 {  
  
 Random r=**new** Random();  
 **while**(array.**length**>0)  
 {  
 **int** index=r.nextInt(array.**length**);  
 System.***out***.println(**"index = "**+index +**", "**+**"element = "**+array[index]);  
 **int**[]array1 =**new int**[array.**length**-1];  
 **for**(**int** i=0; i<index;i++)  
 array[i]=array[i];  
 **for**(**int** i=index ;i<array.**length**-1;i++)  
 array[i]=array[i+1];  
 array=array1;  
 }  
 }  
 }

output

array element :

1

2

3

4

5

6

7

8

9

0

index = 1, element = 2

index = 1, element = 0

index = 2, element = 0

index = 1, element = 0

index = 1, element = 0

index = 3, element = 0

index = 2, element = 0

index = 0, element = 0

index = 1, element = 0

index = 0, element = 0

1. Push your assignments to your git hub repository

ok